Outdoor Intelligent High Speed Dome Camera
User Manuel

V D3.31SHAN/2009

Please read this manual carefully before installation and keep it for application
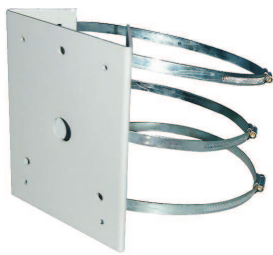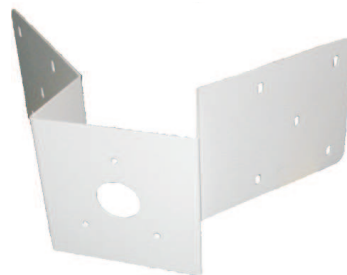
Accessories

Wall mount bracket

Ceiling mount bracket

Pole mount bracket

Corner mount bracket

Joystick controller

Connection adopter

Catalogue

CHAPTER 1: Product Introduction

IR Intelligent high-speed dome camera is one high-tech surveillance & control product with high-resolution color camera module, omni-direction Pan/Tilt, infrared LED array,multi-functional decoder,CPU processor and memory chip. The product reduces the connection between system components and the installation process, it extremely improve the stability of the system. And it fits different environments no matter indoor or outdoor.7 inch 's profile match with special install mount, arm bracket or ceiling mount can be selected. This dome with weather-proof design, the housing adopts with PC material which is vandal-proof,waterproof,aging resistance, anti-acid rain, high temperature resistant and anti-erode.

Characteristics:

Camera specification:

*The speed dome support different integrated camera module including SONY, SANYO.
Powerful Pan/Tilt function:
*Max. 360°/sec high speed Pan/Tilt turning
*Adopted with vector driving technology, Pan/Tilt motions are accomplished in the shortest path. As a result, time to target is reduced dramatically and the video on the monitor is very natural to watch.
*Super slow speed function can be reached by joystick, the lowest speed can touch 0.05°/sec.
Preset, Pattern, Swing, Privacy mask, Group and more function
*Up to 128 pieces preset point can be memorized. The additional information such as dwell time,label ... can be set as demand.
*Up to 8 pieces point-to-point auto scan can be memorized. Support proportional shift between zoom and speed.
*Up to 2 of pattern can be recorded and played back. It can record 200 operation commands.
*Up to 5 pieces GROUP can be stored, the function enable the camera to move repetitively with combination of Preset or Pattern or Swing. A group contained with Max.10 presets, patterns or swings.
*Max.8 of Privacy masks can be located wherever it is required to protect private life. (Only Sony camera module support this function)
*Support Schedule function.
PTZ lens control
*Max. 1024 cameras can be controlled at the same time by RS-485 bus communication.
*Pelco-D, Pelco- P protocol can be selected.
OSD Menu
* The situation of camera can be displayed on screen with OSD menu function. The detailed camera function also can be set with OSD menu.
*The information of camera series number, Pan/Tilt position, alarm in/out, preset all can be shown on screen or not with OSD menu setup;
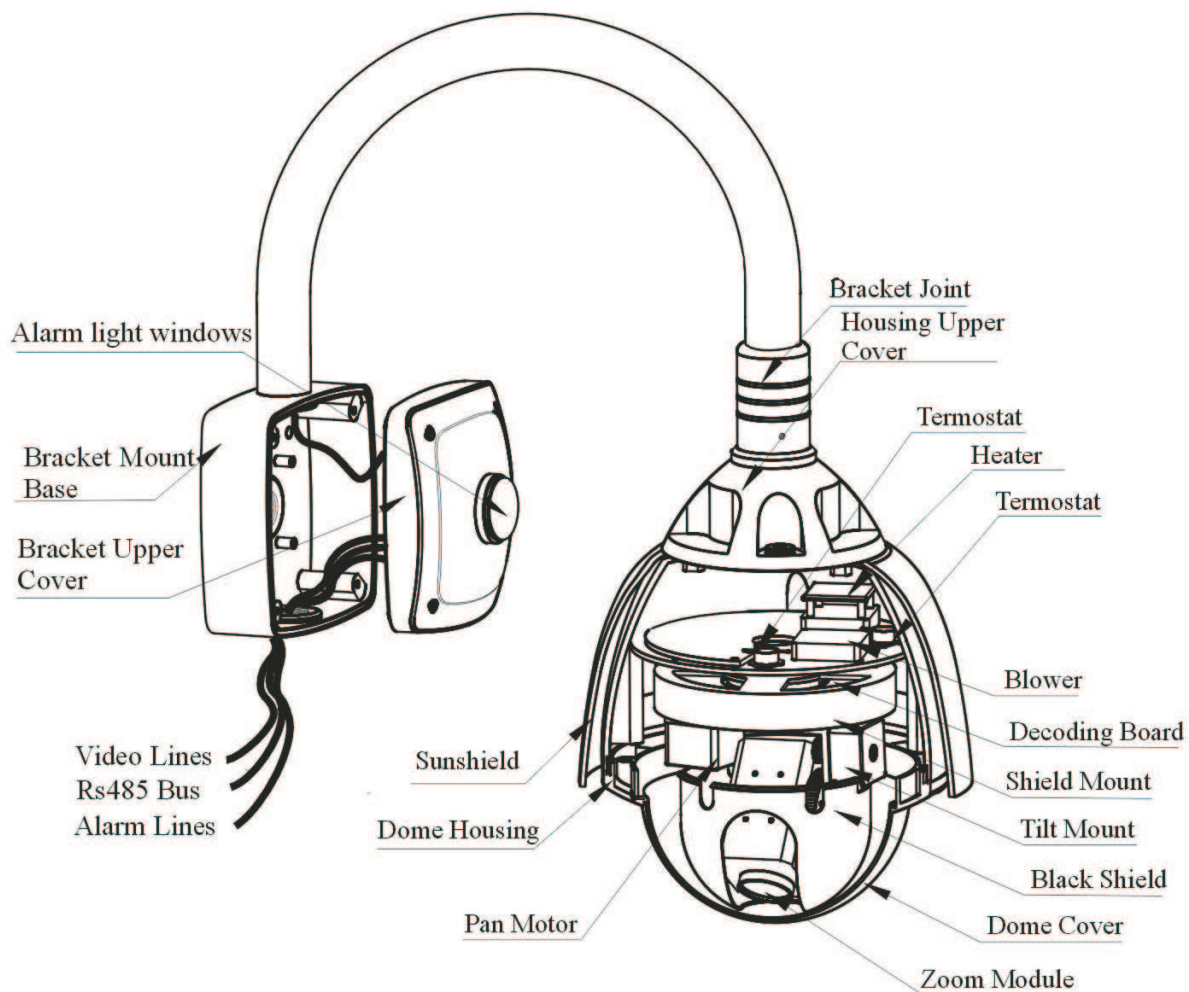**Alarm Function**
Built-in 4 channels input function.
If anyone alarm detector was activated then camera can auto move to preset that beforehand setup.

Product Introduction

Convenient installation and operation

*With built-in fan & heater and the weather-proof design, the product is very suitable for application in outdoor environment.

*The structure of dome camera meets the demand of IP66 standard.

*The design concept of high-speed dome and mounting based on convenient installation.

Product Diagram

Alarm light windows

Bracket Mount Base

Bracket Upper Cover

Video Lines
Rs485 Bus
Alarm Lines

Sunshield

Dome Housing

Pan Motor

Bracket Joint
Housing Upper Cover

Termostat
Heater
Termostat

Blower
Decoding Board
Shield Mount
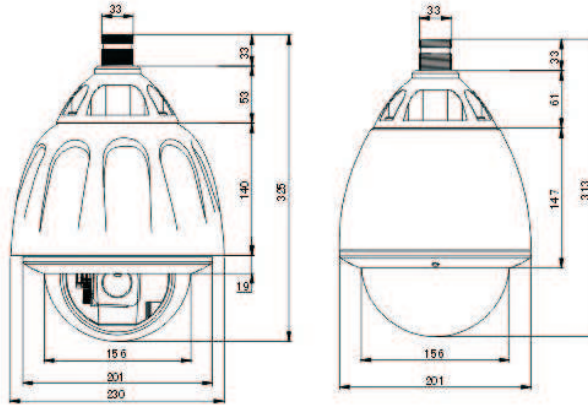Tilt Mount
Black Shield
Dome Cover
Zoom Module

CHAPTER 2: Specifications

2.1 Configuration of Speed Dome Camera

Product Photo   Speed Dome Dimension

Camera Type & Specifications		
Camera	Sensor	1/4" IT Exview HAD CCD SONY
	Resolution	480 lines
	S/N	>48db
	Zoom Ratio	22 times optical zoom; 10 times digital zoom
	Focal Length	F1.6;f=3.9-85.8mm
	Min. Illumination	0.1Lux
	Image Freeze	Yes
	Day/Night	Yes
	Focus	Auto/Manual
	Iris	Auto
	White Balance	Auto
	BLC	ON/OFF selectable by OSD menu.
Pan/Tilt	Turning	Scope	Pan 360°;Tilt 90°
		Preset	360°/Sec
		Manual	0.025°~120°/Sec
		Swing Speed	200°/Sec
		Auto Scan	15°/Sec~60°/Sec
	Preset Quantity	128
	Pattern	2 Patterns,200 commands every one
	Swing	8
	Group	5 Groups and each with 10 actions
	Protocol	Pelco-D; Pelco-P;VC;WORLD
	OSD	Suport camera module setup and speed pan/tilt Programmable OSD for Pan/Tilt,Zoom camera, Swing, Pattern, Group, Schedule... Functions.
	Fan/Heater	Built-in auto controler heater and fan
Others	Temperature	-35°C~50°C
	Moisture	<95%
	Power Supply	AC24V
	Consumption	20W
	Heater Consumption	10W

CHAPTER 3 Connection & Setup

3.1 Intelligent speed dome camera connection diagram
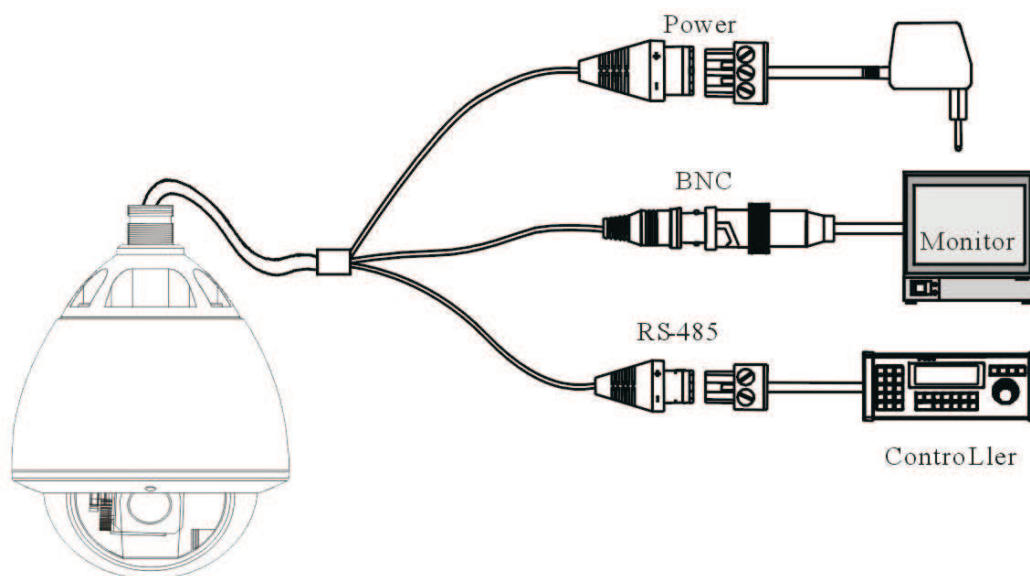
3.2 Cable connection;

Please check carefully the voltage and current capcity of the electrical power source. The correct power to operate the camera is AC24V / 1.5A;

There is one AC24V, 3A PSU in the packing carton of speed dome camera.   We suggest you to use this PSU to power supply the speed dome camera. If the power is not enough, the camera can not work properly.

The BNC connector can be connected to video coaxal cable directly for vide signal transmission.

Please check the polarity of Rs485 cable before installation. If the Rs485 cables be connected reversed, the camera can not get any response from controller.

Notices: We suggest you select twisted cable which the copper wire diameter more than 0.25mm.   And if the transmission distance more than 700 feet, we suggest you to select one Rs485 signal amplifier. Or the Rs485 contral may not work properly.

Connection & Setup

RS485 Bus marching resister

    To the application of system center control, in order to prevent the reflection and interference of RS485 signal and other communication signals, the communication port of farthest equipment from control center should parallel connected with one marching resister.

3.3 RS-485 match resistance application

    In order to get one good RS485 control, to avoid the reflection and disturbance of RS485 communication signal or other signal, one terminal match resistance is needed on the last dome camera. Please make the ten switch dail to " ON " on the back panel.

Controller

RS-485 terminal match resistance   ON

RS –485

#1

2

n

Terminal match
resistance OFF

Terminal match
resistance OFF

Terminal match
resistance OFF
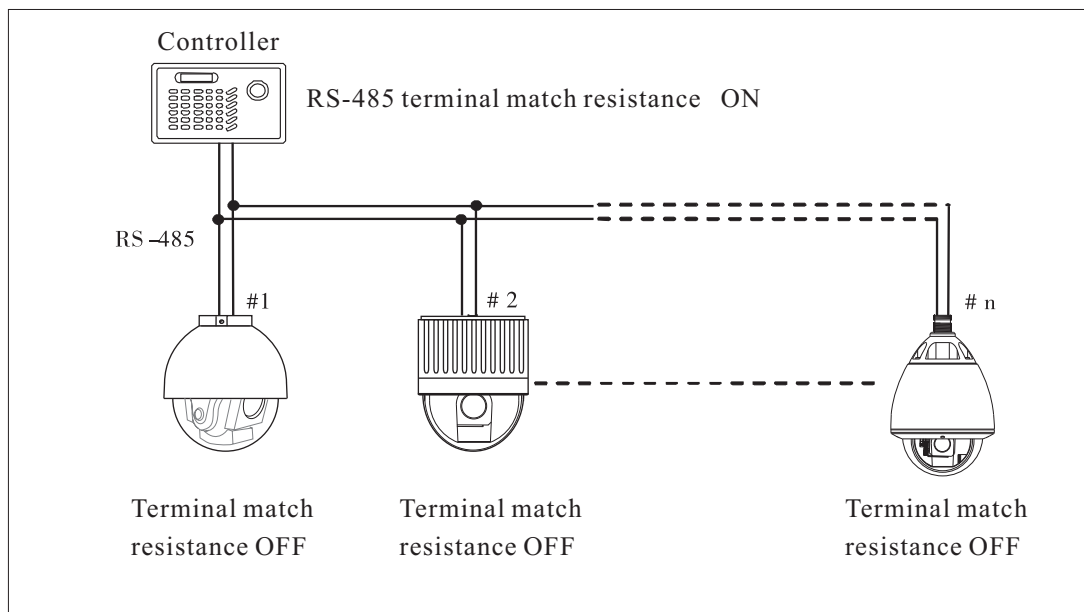
Notice
Please make sure the dome connects into voltage,use the accessory power.
**Please make sure the anode and cathode of RS-485 accurate to avoid the dome can not be controlled.**
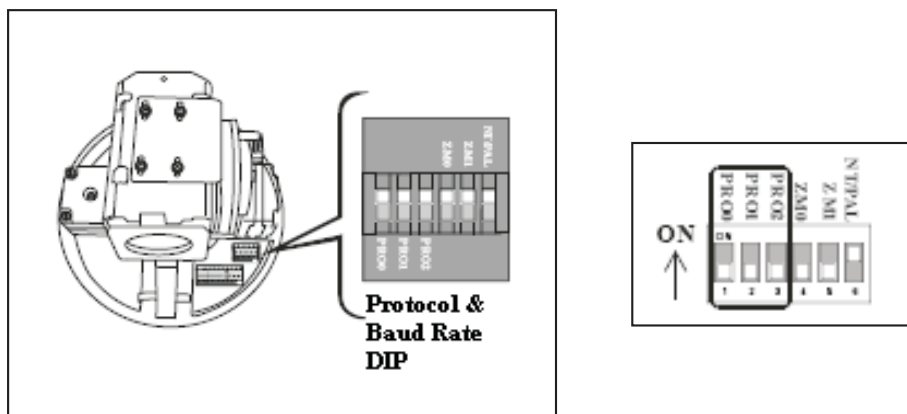
Chapter 4   Protocol & Address Code Setting

Before installation, please check the Communication Protocol, Baud Rate and Address Code of the control main machine in the system.   There are two groups dip switch which be used to set protocol, baud rate and address of dome camera. Please set the dip switch consistent with system.

◆   **The disassemble way of transparent dome:**
◆   **Fix screws**
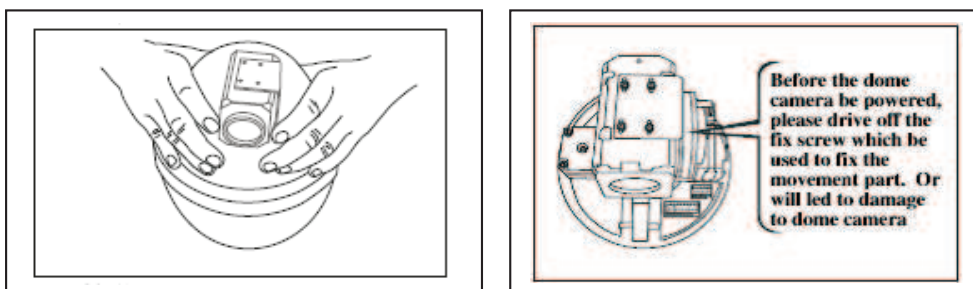
4-1.   Protocol and baud rate setup of high speed dome camera
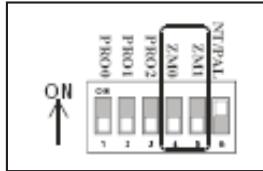

◆   **Protocol & baud rate setup:**

SWITCH			Protocol/Baud Rate
PRO0 (Pin 1)	PRO1 (Pin2)	PRO 2 (Pin 3)	
OFF	OFF	OFF	PELCO-D, 2400bps
ON	ON	OFF	PELCO-P, 9600bps

Protocol & Address Code Setting

◆ **Camera module setup:**

1. NTSC/PAL setup:

ON/OFF		CAMERA
ZM0 (Pin 4)	ZM1 (Pin 5)	
OFF	OFF	SONY
ON	OFF	YOKO
OFF	ON	CNB
ON	ON	LG

NT/PAL (Pin 6)	NTSC/PAL
OFF	NTSC
ON	PAL

Intelligent High Speed Dome Camera Address Setup

Before the application of high speed pan/tilt dome, the address code should be setup firstly. The address code is decided by the 8 bits dip switch on back panel which adopted with 8421 code. Support up to 255 pieces addresses. ON is respected by number 1. OFF is respected by number 0. Please check the attached address list at the back side of manual for the detailed setting way (Refer Chapter 10: Address code DIP diagram) .

Notice
Factory default address code is 1.
Please make sure dip switch is on position, otherwise,the dome camera will out of control.
**Please make sure the dome can be controlled before installation.**

The method of address code setup

Serial No.	1	2	3	4	5	6	7	8
Address Code	1	2	4	8	16	32	64	128

Dip switch has defined address number for each bit, as above diagram: No.1 stands for 1st address No., No.2 stands for 2nd address No., No. 3 stands for 4th address No., and No. 4 stands for 8th address No.···, how many channels you would like to set, just dip the relevant serial number to "on". You can plus existing address bits., to get what you can not find from the dip switch diagram.
I.e. If you want to dip the 1st address No, just dip serial No. 1 to "ON". If you want No.37 address, just dip No.1, No.4, No.32 to "ON" position.
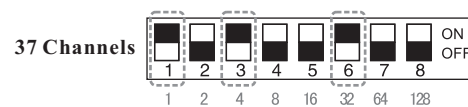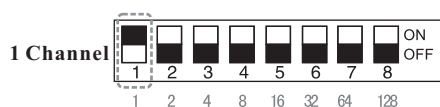
Chapter 5:User Manual of The Controller

All the functions of IR high speed dome camera can be achieved through the control by keyboard. Because the detailed operation from different company is different, if the control system is from other company,please control the dome according to the instruction from control system supplier. Some special functions of high speed dome ask special operation , please connected with the control system supplier for detailed operation way.

(We suggest choosing our controller with dome camera that can help you to get more function)
For the following description, control way is the same, no matter what protocol to be selected. Like Pleco-D, Pelco-P !

5.1 Communication Protocol Selection

After connection of all together, the communication protocol selection will be show on the screen when you press"F4". The protocol definition as bellow:

"Pelco-P"	**PELCO P protocol**	**9600bps**
"Pelco-D"	**PELCO D protocol**	**2400bps**

The above definition is the switchover order for communication protocol according to the order of pressing on the "F4" key .

5.2 Camera Selection

Selecting any camera: Just input [255] address number, then input [CAM].
Selecting next camera: Input [+1], then the next camera be selected.
Selecting last camera: Input [-1], then the last camera be selected.

I.E. To Select No.2 camera:

Input [2], then input [CAM], the No.2 camera be selected; After No.2 camera be selected, input [+1], the No.3 camera be selected; If we want to select No.1 camera after NO.2 camera be selected, just input [-1], then the No.1 camera be selected;

5.3 P/T/Z Control

Input the camera series number which one you want to control.
Input [ZOOM+], [ZOOM-], [FOCUS+],[FOCUS-] or just move the joystick to control pan/tilt and lens control

I.E. Control No.2 P/T/Z camera:

Input [2] + [CAM], then using joystick to move pan/tilt to the wanted position------input [ZOOM+], [ZOOM-], [FOCUS+],[FOCUS-] to control dome camera.

5.4 Setup of P/T/Z Preset Points:

Select wanted camera, then use joystick to move the camera to appointed position.
Input [F1] + [8];
Input you wanted series number for this preset point (from 1 128);
Input [PRE], then one preset point be established.

I.E. To establish No.15 preset point on No.5 camera:

Input [5] + [CAM] to select No.5 camera firstly.Zoom out lens then use joystick to move camera to wanted position. Input [F1] + [15] + [PRE]

If want to establish different preset point, just change another series number, repeat the above operation.

5.5 Preset Point Call Back

(1) Manual Control:

Input the camera address number which one you want to control;

Input preset point number (128), the default number is 1.

Input [CALL], the wanted preset point be called back;

I.E. To call the No.6 preset point back on No. 3 camera:

Input [3] + [CAM] + [6] + [CALL], then the No.6 preset point on No.3 camera be called back.

(2). Automatically Control:

Input the camera address number which one you want to control;

Input the largest preset point number (2-16) which want to be automatically controlled, the default number is 8. The number of automatically controlled preset point can be different with different P/T/Z camera, but the largest automatically control number is 16.

Input [RUN];

Revising the dwell time on preset point

Input the new dwell time (160), then input [DWL], after that the dwell time on all preset point be changed from 1 second to 60 second.

I.E. To automatically control the top 10 preset point on No.7 camera,the dwell time is 20 seconds:

Input [7] + [CAM] to select camera, input [10] + [RUN], input [20] + [DWL], then the top 10 preset point be called back automatically, dwell time is 20 second.

(3). Termination of Preset Automatically Control:

To select you want to controlled camera;

Input [HOLD] or just move the joystick to stop automatically turning with this camera. Other camera won't be affected;

I.E. To stop the automatically control on No.4 camera:

Input [4] + [CAM], then input [HOLD] or just move the joystick, the automatically preset control on No.4 camera be terminated.

5.6 Deletion of Mistake Operation:

Input [DEL] can clean the input item on screen. If any mistake with input, just input [DEL] to clean.

> If controller without "SAL" function key, it can realize the Pattern, Swing and group function through call back relevant preset, the details as bellow:
>
> 2 patterns use from "131" to "132" preset to operate the patterns which have been setup.
>
> 8 Swings using from "141" to ""148 preset to operate the swings which have been setup
>
> 5 Groups use from "151" to "155" preset to operate the swings which have been setup..

CHAPTER 6: Guide of OSD Menu Application

Checking before Operation:

● Checking the cable connection carefully before camera be powered;

● The camera address ID of the controller must same of the camera address ID. The camera ID can be c-hecked by reading DIP switch on PCB of camera.

● If your controller supports multi-protocols, the protocol must be adjusted to the same as camera prot-ocol.

● The protocol changing on camera by DIP switch will come into work after camera restart.

● Since the operation methods are different from different suppliers. Generally the operation of contro-ller should base on the manual from the manufacturer of controller. Some special function of our high speed dome camera can't be operated by other manufacturer's controller. There are some special dem-ands and operations at some times, please connect with the dealer or manufacturer of you selected co-ntroller.

● Since preset 95 is used to start the OSD menu, so it can't be used as regular preset. Therefore, the des-cription "Presets 1~128 always means excluding Preset 95 in this manual"

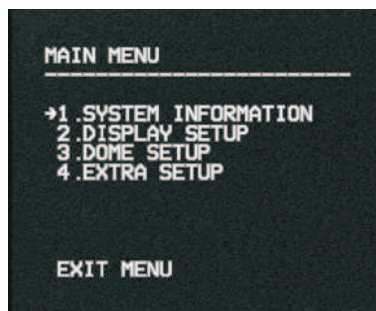**Self-Checking Information:**
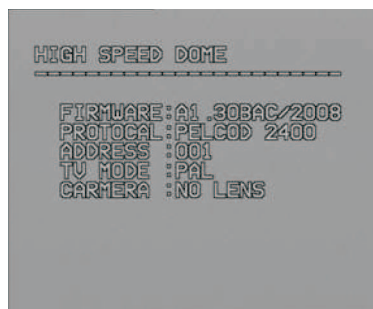
OSD Menu:

1.Function: With the application of OSD menu, Preset, Swing, Group, Pattern, Alarm I/O and other fu-nctions can be setup for application.

Input [95] --- [CALL] to begin the application of OSD menu

.

Using joystick to move the cursor then input [FOCUS+] to selection wanted item.

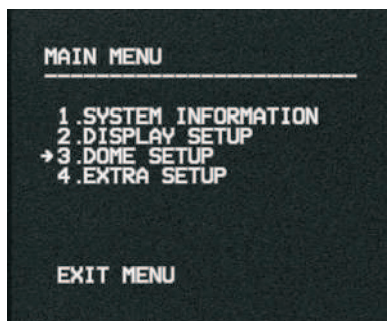SYSTEM INFORMATION selection is used to check system version information.
DISPLAY SETUP selection is used to setup what be shown on screen.
DOME SETUP selection is used to setup all functions of speed dome camera. It is
the main function selection.
EXTRA SETUP selection is used to setup unimportant setup of speed dome
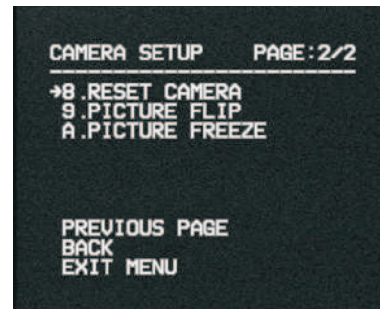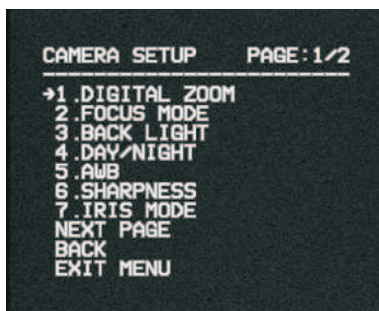
1. DOME SETUP:

Please using joystick to move cursor to DOME SETUP selection. Then input
[FOCUS+] , the manu com e into the sub-manu as shown on followed:

```
MAIN MENU
─────────────────────
 1.SYSTEM INFORMATION
 2.DISPLAY SETUP
→3.DOME SETUP
 4.EXTRA SETUP



 EXIT MENU
```

```
DOME SETUP
─────────────────────
→1.SETUP CAMERA
 2.SETUP MOTION
 3.SETUP PRESET
 4.SETUP SWING
 5.SETUP GROUP
 6.SETUP PATTERN
 7.SETUP PRIVACY
 8.SETUP SCHEDULE
 BACK
 EXIT MENU
```

1.1 SETUP CAMERA:

This selection be used to setup the specifications of camea module.
 With the selection, the camera functions of DIGITAL ZOOM, FOCUS
MODE, BACK LIGHT, DAY/NIGHT, AWB, SHARPNESS, IRIS MODE,
RESET CAMERA , CAMERA FLIP and PICTURE FREEZE can be setup

```
CAMERA SETUP    PAGE:1/2
─────────────────────
→1.DIGITAL ZOOM
 2.FOCUS MODE
 3.BACK LIGHT
 4.DAY/NIGHT
 5.AWB
 6.SHARPNESS
 7.IRIS MODE
 NEXT PAGE
 BACK
 EXIT MENU
```

```
CAMERA SETUP    PAGE:2/2
─────────────────────
→8.RESET CAMERA
 9.PICTURE FLIP
 A.PICTURE FREEZE



 PREVIOUS PAGE
 BACK
 EXIT MENU
```
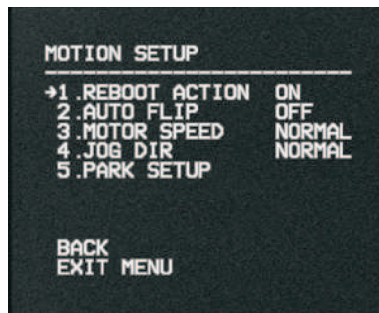
1.2 SETUP MOTION:

This selection mainly be used to setup the specifications of the
movement of speed dome camera.
AUTO FLIP, MOTOR SPEED, PARK POSITION can be setup by this
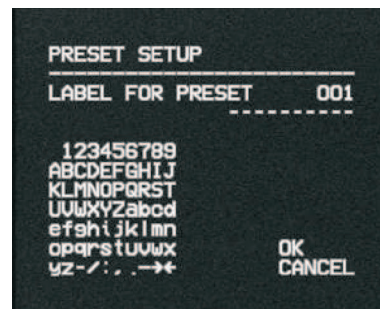selection.

Guide of OSD Menu Application

1.3 Preset:

Function: Up to 127 pieces preset can be set. Beside No.95, all presets can be named as 1---128. With t-he combination of preset key and number key of controller, the preset point setup and call back function can be quickly operated. And modify the default preset information. (preset label, dwell time......)

Setup of Preset Point: Select camera, move camera to wanted position. Input [F1]---[8]---[preset num-ber]---[PRE]

Preset Point Call Back: Input wanted preset number (default is 1), input [CALL], then the preset point be called back.

Preset Deletion: Please use the preset OSD menu to delete preset, or just setup another preset with the s-Ame number to cover the old preset point;

The PRESET NO selection be used to setup the preset point series number. This series number can be shown on screen.

The PRESET LABEL is used to edit the name of preset point.

The DWELL TIME selection is used to setup the stop time on preset point of camera. Using joystick to move cursor to select wanted letter, then input [FOCUS+] to confirm.
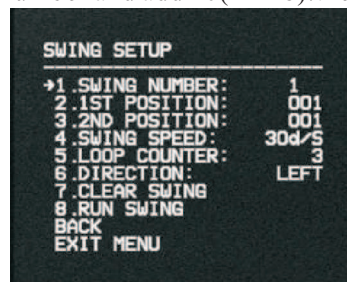
The CLEAR PRESET selection is used to clear preset point.

1.4 SWING SETUP:

This selection is used to setup the swing movement of speed dome camera

With this function, the speed dome camera can move between two preset points.

**Swing Running**: Put swing number and add 10(11-18).then in [SAL];

Guide of OSD Menu Application

1.5 Group Function:

Function: The group function allows running up to 5 groups of preset, swing, pattern in sequence. Every group including preset, swing, pattern, but the total function number can't more than 200 pieces. Through the OSD menu operation, we can establish, modify, delete groups. The dwell time which be set with swing function still workable when group function is working.
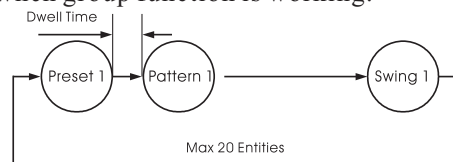
Group Running: Input the wanted group number + 20 numeric key (say 21---25), then input [SAL]. I.E. To run No.5 group: Input [25]---[SAL];.
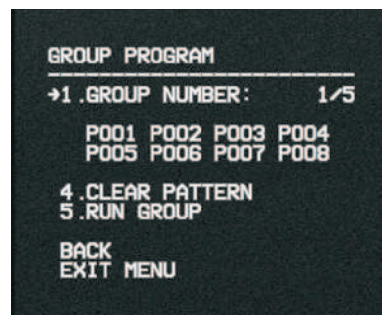
1.6. Pattern:

Function: The pattern function enables us to save and play camera motions created by joystick. Support up to 200 pieces movement command every pattern. Totally support 2 pieces pattern;

Pattern Setup: Pattern can be created by the followed two ways:

Using the numeric 1,2 and SAL to establish one Pattern:

Input [1---2], then press [SAL] more than 2 seconds to begin one establishment of pattern;

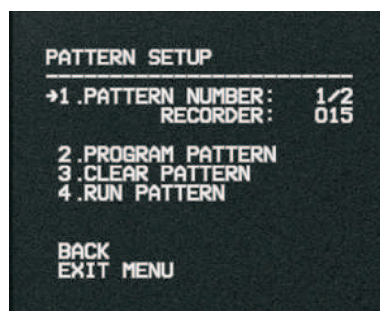Using joystick to move camera to create the trace of pattern;

The limitation of movement is 200 pieces movement commands, the command number can be shown on screen;

Input [Focus+] to save, [Focus-] to abandon;

Using OSD Menu to Establish Pattern:

Pattern Running: Input numeric 1or 2 then input [SAL] to run one pattern;

Pattern Deletion: Please use OSD menu to delete pattern;

6.Other Functions:

Information protection after power off: This function can get back the last automatically running action. Beside manual operation, preset, swing, trace recording, pattern all can be get back.

180° auto flip function: If the vertical turning of camera more than 90° camera can automatically 180° turning at horizontal direction. Then camera can continuously tracing objection.

Park Function: With this function, camera can automatically turn to one special position to rectify mistake which be accumulated through automatic turning. (Normally, the park position is No.1 preset point);

If the camera is not operated for a while, the camera also can turn to park position automatically. The waiting time of park position is adjustable from

Privacy Zone Masking : (SONY camera module only) In order to protect privacy, the speed dome camera support 8 pieces masking zone to hide objections such as windows, shops or private space....!

7.OSD Display of Main Screen
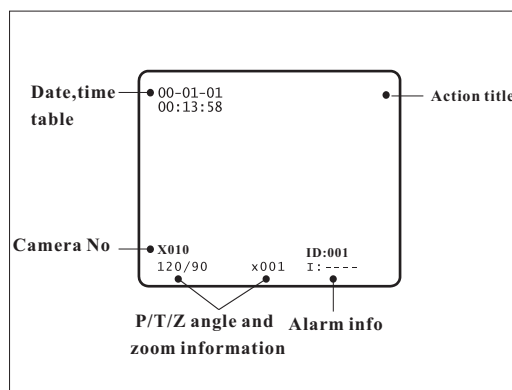
P/T angle and Zoom information:

To show the Pan/Tilt position and zoom magnification;

Camera ID: The current camera address number.

Action Title: Followings are possible Action Titles and their meaning.

"SPRESET~ ": When preset ~ is stored

"PRESET ~": When camera reach to Preset ~

"UNDEFINED": When undefined Preset number is called to move

"SWING ~": When swing ~ is in action

Preset Label: The label stored for specific preset point.

Alarm Input: The has 4 channels input .If anyone point is ON state it will show a number corresponding to each point.If the point is OFF state,"-" will be displayed.

8. Major Rules of Menu Operation

● The menu items surrounded with ( ) always has its sub menu.

● For all menu level, to go into sub menu, press [Focus+] key, to go up to upper menu, press [Focus] key. If you learn by heart a rule that F+ is always similar to ENTER key and [Focus-] key is always ESC key, many other functions of these keys will be easy to understand.

Guide of OSD Menu Application

- To move from item to item, use Up/Down of the joystick in the Up/Down or Left/Right.

- If you want to confirm a menu item, press [Focus+] key.

- To change a value of an item, use Up/Down of the joystick in the controller. After you change a value, press [Focus+] key to save it or press [Focus-] key to cancel it.

9.Main menu

```
           MAIN  MENU
  ------------------------------------
 → 1.SYSTEM  INFORMATION
   2.DISPLAY  SETUP
   3.DOME  SETUP
   4.EXTRA SETUP
```

10. Display Setup

```
         DISPLAY  SETUP
  ------------------------------------
 → 1.CAMERA  ID          ON
   2.ACTION  TITLE       ON
   3.PTZ  INFO           ON
   4.PRESET  LABEL       ON
   5.ALARM  INFO         ON
   6.SYSTEM  TIME        ON


   BACK
   EXIT  MENU
```
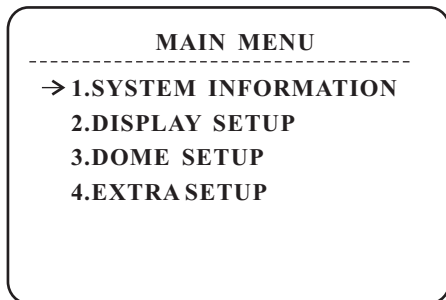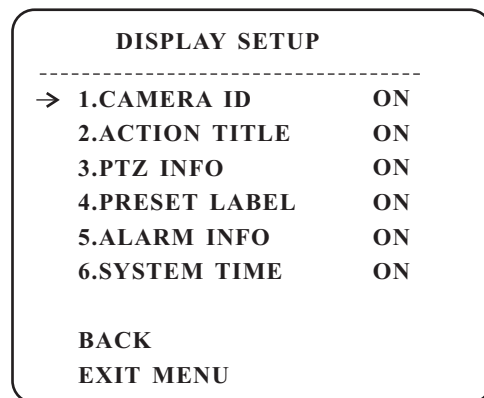
This menu defines Enable/Disable of OSD display on Main Screen. If an item is set to be AUTO, the item is displayed only when the value of it is changed.

12.PTZ Motion setup

```
        MOTION  SETUP
-------------------------------------
→  1.REBOOT ACTION    ON
   2.AUTO FLIP        OFF
   3.MOTOR  SPEED     NORMAL
   4.JOG  DIR         NORMAL
   5.PARK  SETUP

   BACK
   EXIT  MENU
```

The maximum manual speed is listed below w-
hen zoom is *1. As zoom magnification is incr-
eased, the speed will be decreased to maintain
equal controllability.

| High speed 0 °~180° /sec |
| Middle speed 0° ~90° /sec |
| Low speed 0° ~90° /sec |

14.Preset Setup

```
        PRESET  SETUP

-------------------------------------
→  1.PRESET NO          001
   2.PRESET LABEL

   3.DWELL TIME          3
   4.CLEAR PRESET

   BACK
   EXIT  MENU
```

13.Park Action Setup

```
        PARK  SETUP
-------------------------------------
→1.PARK  ENABLE      OFF
  2.PARK  TIME       00:05
  3.PARK  PRESET     001


  BACK
  EXIT  MENU
```

This function enables to locate the camera to spe-
cific position automatically if operator doesn't o-
perate the controller for a while. The park Time
can be defined as an interval from 1 min. to 4 ho-
urs.

15.Edit Preset Label

```
     PRESET  SETUP
-------------------------------------
→  LABEL FOR PRESET    001
   0123456789
   ABCDEFGHIJ
   KLMNOPQRST
   UVWXYZabcd
   efghigklmn
   opqrstuvwx
   yz-/-;,.- →←
```

LAB FOR PRE:

1.The cursor presents the current input position of
the label letter.Upon the letter be selected , the cu-
rsor move to left.
2.Using the "UP","DOWN","RIGHT","LEFT" of
the joystick, the right letter can be selected from a-
lphabet . After selection of the correct letter, input
[FOCUS+].
3.After all letters be set, move joystick to "OK" t-
hen input [FOCUS+] to save the modification . If
you want to cancel the setup of label, just move j-
oystick to "CANCEL" then input [FOCUS+] to c-
ancel.

16.Swing Setup:

```
              SWING SETUP
    ---------------------------------------
  →1.SWING NUMBER:      1
    2.1ST  POSITION:    001
    3.2ND  POSITION:    001
    4.SWING SPEED:      30d/s
    5.LOOP  COUNTER     3
    6.DIRECTION:        LEFT
    7.CLEAR  SWING:
    8.RUN  SWING:
    BACK
    EXIT  MENU
```

SWING NUMBER: 1/8;   This P/TZ camera support up to 8 pieces swing scan. This item is used to set
                      the series number of swings.
L POSITION: PRE 001; The 001 preset point be set as the left side of swing;
R POSITION: PRE 002; The 002 preset point be set as the right side of swing;
SWING SPEED: AUTO;   The speed dome swing. AUTO is default of system;
LOOP: 1;   The times of swing turning (be used for GROUP function only)
DIRECTION: AUTO;   The direction of swing turning;
RUN SWING   To run swing;

17.Pattern Setup:

```
            PATTERN  SETUP
   ---------------------------------------
 → 1.PATTERN  NUMBER:    1/2
        RECORDER:        000
    2.PROGRAM  PATTERN
    3.CLEAR  PATTERN
    4.RUN  PATTERN

    BACK
    EXIT  MENU
```

PATTERN SETUP: To establish one pattern for camera auto turning;
PATTERN NUMBER 1/2;   Camera support 2 pieces pattern, using this item to edit the series number
                         of pattern;
RECORDER;   The times of pattern turning (for GROUP only);
PROGRAM PATTERN: Using joystick to program the trace of camera, total support 500 pieces co-
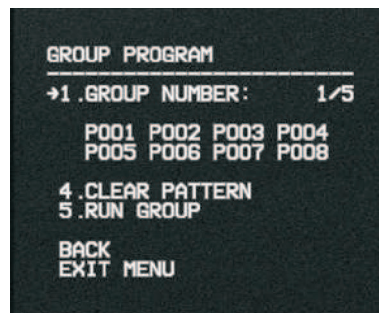   mmands for one piece pattern.
CLEAR PATTERN: To delete one pattern;
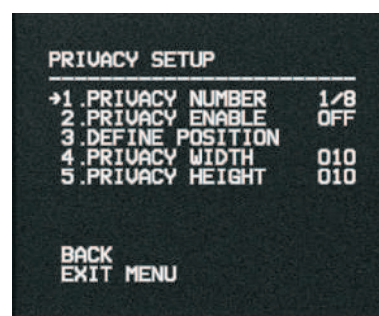RUN PATTERN: To run one pattern;

- Using joystick to move camera to wanted beginning position, and adjusting lens to suitable zoom times, input [FOCUS+] to begin recording, or input [FOCUS-] to abandon.
- The recording support up to 200 pieces movement command. The total recording number be shown on screen.
- The zoom changing of camera also be recorded;
  At any time through recording, input [FOCUS+] to record pattern. Input [FOCUS-] to abandon pattern recording.

18.Group Setup:

```
GROUP PROGRAM
─────────────────────
→1.GROUP NUMBER:     1/5

   P001 P002 P003 P004
   P005 P006 P007 P008

4.CLEAR PATTERN
5.RUN GROUP

BACK
EXIT MENU
```

GROUP NUMBER: 1/5	The camera support 5 pieces group function; This item be used to set one series number of group;
Setup:	"X000" mean the function still not be selected; If preset be selected, will show "P1-P128" ; If swing be selected, will show "S1-S5" ; If pattern be selected, will show "T1-T4";
CLEAR GROUP:	To cancel the group setup;
RUN GROUP:	To run group;

19.Privacy Setup (SONY camera module only)

```
PRIVACY SETUP
─────────────────────
→1.PRIVACY NUMBER    1/8
 2.PRIVACY ENABLE    OFF
 3.DEFINE POSITION
 4.PRIVACY WIDTH     010
 5.PRIVACY HEIGHT    010


BACK
EXIT MENU
```

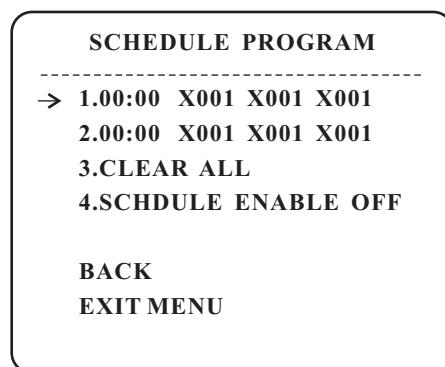|	
PRIVACY NUMBER: 1/8	Support 8 pieces privacy zone masking. This item be used to set one series number of every privacy masking zone.
PRIVACY ENABLE: ON/OFF	This item be used to enable masking to work or not;
PRIVACY WIDE: 000	To setup the width of masking zone(1-999);
PRIVACY HIGH:000	To setup the height of masking zone(1-999);
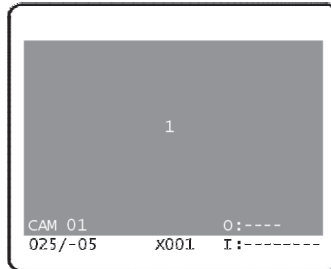
After the setup of masking of privacy zone, when you move the camera to this position, you will find this zone already be covered by masking. The series number of masking will be shown at the center of masking. Totally support 8 pieces privacy zone masking. Please notices: Sometimes, because of the lower speed of screen showing and the Min. illumination is decided by the size of signal character, may lead to position mistake.

Notice

The size of privacy zone masking will be changed according to the zoom changing of camera lens

20. Schedule Setup

```
         SCHEDULE  PROGRAM
   ------------------------------------
→  1.00:00  X001  X001  X001
   2.00:00  X001  X001  X001
   3.CLEAR  ALL
   4.SCHDULE  ENABLE  OFF

   BACK
   EXIT MENU
```

"X000" mean the action which still not be selected; If the preset be selected, will show "P1~P128"; If swing be selected, will show "S1~S5"; If pattern be selected, will show "T1~T4"; If group be selected, will show "G1~G8". The keeping time, from 1 to 120 minutes;

CLEAR ALL   Delete schedule
SCHUDULE ENABLE   Schedule function switch   ON/OFF
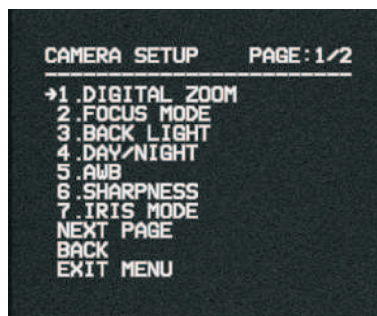
Guide of Camera Module OSD Menu

We supply one special function with our P/T/Z dome camera-----------
the camera module OSD menu operation.

You can input [96] + [CALL] to setup camera module OSD menu.

Using [ZOOM+] and [ZOOM-] to move the cursor

Using [FOCUS+] and [FOCUS-] to select the parameter of camera
module

   Notice: The camera module parameters already be setup well before
be shipped out of factory. We do not suggest you change the
parameters beside special demand.

```
CAMERA SETUP      PAGE:1/2
───────────────────────────
→1.DIGITAL ZOOM
 2.FOCUS MODE
 3.BACK LIGHT
 4.DAY/NIGHT
 5.AWB
 6.SHARPNESS
 7.IRIS MODE
NEXT PAGE
BACK
EXIT MENU
```

CHAPTER 10:255 CHANNELS ADDRESS DIP SWITCH DIGRAM

RS-485 Bus Control Mode Device Connection Sketch Map

Pan

Decoder

P/T/Z

High Speed Dome

P/T/Z

Code Divider

1500m

AB Line

485turn232

Keyboard

DVR
Hard disk video

More 485 Bus
Control device

OR

OR

Our company product standard connection is series connection device

A B
N#

A B
3#

A B
2#

A B
1#

Dome plate

A B
Keyboard
OR DVR

Connection Sketch Map

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